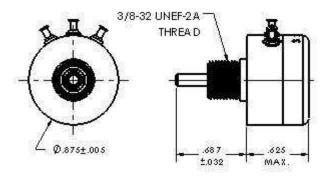
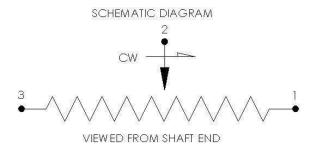


FEATURES

- Less Space (7/8" Dia. Sizes)
- > Greater Reliability
- Resolution
- Output Smoothness
- Special Linearity Options
- Mechanical Stops Option
- Long Life
- Various Non-Linear Tapers, Taps, Multi-sections,
 Electrical Angles, Special Total Resistance





6209 ROTARY SERIES

1KΩ, 2KΩ, 5KΩ, 10KΩ, 20KΩ • Precision Position Potentiometer 7/8" Dia. Bushing Mount Mounting Hardware Furnished

SPECIFICATIONS

Industrial / Military Grade Rotary Position Sensor

Rotational Operating Life 100 x 10⁶ Revolutions Min.

Anodized Aluminum Housing

Stainless Steel Shaft & Ball Bearings

General Requirements IAW MIL-PRF-39023

MEAS rotary potentiometer designs provide various non-linear tapers, taps, multi-sections, and electrical angles while maintaining great reliability.

ELECTRICAL CHARACTERISTICS

RESISTANCE 1K Ω to 20K Ω ±10%

ACTIVE ELECTRICAL ANGLE 340°

ELECTRICAL CONTINUITY ANGLE 344° MIN INDEPENDENT LINEARITY ±0.5%

END VOLTAGE 0.5% MAX

VOLTAGE RESOLUTION VIRTUALLY INFINITE

OUTPUT SMOOTHNESS 0.1% MAX

RESISTANCE TEMP. COEFFICIENT 400PPM/°C MAX

POWER RATING @ 70°C 1.0 WATT MAX

WIPER CONTACT CURRENT 10mA MAX

DIELECTRIC STRENGTH 750 VRMS @ 60Hz

INSULATION RESISTANCE 100mΩ MIN @ 500VDC

MECHANICAL CHARACTERISTICS

MECHANICAL ROTATION CONTINUOUS STARTING TORQUE 0.25 Oz.-In. MAX **RUNNING TORQUE** 0.20 Oz.-In. MAX **TOTAL WEIGHT (1-GANG)** 0.9 Oz. MAX **PILOT RUNOUT** 0.001 In. TIR **SHAFT RUNOUT** 0.001 In. TIR **SHAFT ENDPLAY** 0.003 MAX **SHAFT RADIAL PLAY** 0.001 In. TIR LATERAL RUNOUT 0.002 In. TIR

STANDARD MATERIALS

HOUSING AND COVER ANODIZED ALUMINUM

SHAFT & BALL BEARINGS STAINLESS STEEL

RESISTANCE ELEMENT CO-MOLDED CONDUCTIVE PLASTIC

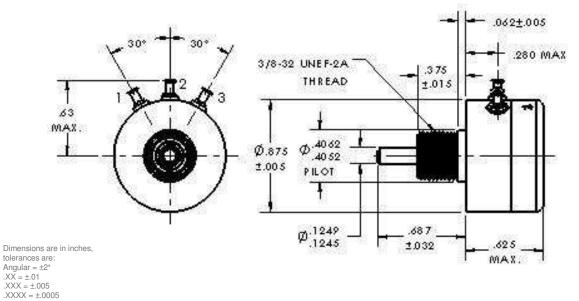
ELECTRICAL CONTACTS MULTI-FINGER PRECIOUS METAL

SOLDER TERMINALS GOLD PLATED BRASS

ENVIRONMENTAL CHARACTERISTICS

OPERATING TEMP. RANGE -65°C to +125°C

ROTATIONAL OPERATING LIFE 100 x 10⁶ REVOLUTIONS MIN.



AVAILABLE OPTIONS / CUSTOMIZATION

- Resistance Values
 - \circ 500 Ω to 50K Ω
- Tolerances
 - o As low as ±5%
- Special Linearity
 - As low as 0.15%
 - Absolute (Indexed)
 - Or Independent over specified regions
- Additional Taps, Current or Voltage
- Current Limit Resistors
- Internal Circuit Components
 - o Caps, Diodes, etc.
- Special Electrical Angles
 - o Up to 355° MAX
- Wire Leads or Cable in place of Terminals
- Special Transfer Functions
 - Non-Linear Outputs
 - Load Compensation
 - Trig, Log, & Exponential Outputs
- Multi-gang Construction
 - Up to 6 on a common shaft (+ .320 Length per gang) or concentric shafting

- Shaft Modifications
 - Lengths
 - o Rear Extensions
 - Flats
 - Slots
 - Steps
- Torque or Detent
 - o As low as .015 Oz-In. Starting Torque
- Mounting Features
 - o Anti-rotation Locking Pins
 - Bushing Flats
 - Slots
- Rotational Stops
- Ancillary Devices
 - o Spring Returns
 - Clutches
 - o Brakes
 - Switches
- Environmental Capabilities
 - Moisture Seals
 - o High Shock & Vibe

ORDERING INFORMATION

Model Number:	Resistance:
6209-1000-030	1KΩ ±10%
6209-1001-030	2KΩ ±10%
6209-1002-030	5KΩ ±10%
6209-1003-030	10KΩ ±10%
6209-1004-030	20KΩ ±10%

NORTH AMERICA

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Largest Supplier of Electrical and Electronic Components

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